

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN THE APPLICATION OF:
GLASSMAN ET AL.

CASE NO.: BB1449 US NA

APPLICATION NO.: UNKNOWN

GROUP ART UNIT: UNKNOWN

FILED: CONCURRENTLY HEREWITH

EXAMINER: UNKNOWN

FOR: **RECOMBINANT CONSTRUCTS AND THEIR USE IN REDUCING GENE
EXPRESSION**

Assistant Commissioner for Patents
Washington, DC 20231

Sir:

DECLARATION IN ACCORDANCE WITH 37 CFR 1.821

I hereby state that the content of the paper and computer readable copies of the Sequence Listing, submitted in accordance with 37 CFR 1.821(c) and (e), respectively are the same.

Respectfully submitted,


LYNNE M. CHRISTENBURY
ATTORNEY FOR APPLICANTS
REGISTRATION NO. 30,971
TELEPHONE: 302-992-5481
FACSIMILE: 302-892-1026

Dated: 22 June 2001

DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76)

As the below named inventor(s), I/we declare that:

This declaration is directed to:

- The attached application, docket BB1449 US NA or
- Application No. _____, filed on _____,
- as amended on _____ (if applicable);

I/we believe that I/we am/are the original and first inventor(s) of the subject matter which is claimed and for which a patent is sought;

I/ we have reviewed and understand the contents of the above-identified application, including the claims, as amended by any amendment specifically referred to above;

I/we acknowledge the duty to disclose to the United States Patent and Trademark Office all information known to me/us to be material to patentability as defined in 37 CFR 1.56, including material information which became available between the filing date of the prior application and the National or PCT International filing date of the continuation-in-part application, if applicable; and

All statements made herein of my/own knowledge are true, all statements made herein on information and belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001, and may jeopardize the validity of the application or any patent issuing thereon.

FULL NAME OF INVENTOR(S)

Inventor one: KIMBERLY F. GLASSMAN

Signature: _____ Citizen of: U.S.A.

Inventor two: WILLIAM J. GORDON-KAMM

Signature: _____ Citizen of: U.S.A.

Inventor three: ANTHONY J. KINNEY

Signature: _____ Citizen of: UNITED KINGDOM

Inventor four: KEITH S. LOWE

Signature: _____ Citizen of: U.S.A.

- Additional inventors are being named on 1 additional form(s) attached hereto.

Burden Hour Statement: This collection of information is required by 35 U S C 115 and 37 CFR 1.63. The information is used by the public to file (and the PTO to process) an application. Confidentiality is governed by 35 U S C 122 and 37 CFR 1.14. This form is estimated to take 1 minute to complete. This time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

FULL NAME OF INVENTOR(S)

Inventor one: SCOTT E. NICHOLS

Signature: _____ Citizen of: U.S.A. _____

Inventor two: KEVIN L. STECCA

Signature: _____ Citizen of: U.S.A. _____

Inventor three: _____

Signature: _____ Citizen of: _____

Inventor four: _____

Signature: _____ Citizen of: _____

SEQUENCE LISTING

<110> Glassman, Kimberly F.
Gordon-Kamm, William J.
Kinney, Anthony
Lowe, Keith S.
Nichols, Scott E.
Stecca, Kevin L.

<120> RECOMBINANT CONSTRUCTS AND THEIR USE IN REDUCING GENE EXPRESSION

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<170> Microsoft Office 97

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<223> Description of Artificial Sequence: PCR primer for amplification
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<212> DNA

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<223> Description of Artificial Sequence: pKS102 linker

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<223> Description of Artificial Sequence: PCR primer for amplification of Cer3

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<210> 8
<211> 30
<212> DNA
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<223> Description of Artificial Sequence: PCR primer for amplification of Cer3

<400> 8
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<210> 9
<211> 30
<212> DNA
<213> Artificial Sequence

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<223> Description of Artificial Sequence: PCR primer for amplification of Cer3

<400> 9
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<210> 10
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<212> DNA
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<223> Description of Artificial Sequence: PCR primer for amplification of Cer3

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cagttctaca tatgcataaa cattggcaa 30

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<223> Description of Artificial Sequence: ELVISLIVES complementary region of pKS106 and pKS124

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gaattcgcgg ccgcggcacg agatttgagg 30

<210> 12
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<212> DNA
<213> Artificial Sequence

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<223> Description of Artificial Sequence: ELVISLIVES complementary region of pKS106 and pKS124

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cgcccgagc tggtcatctc gctcatgtc gagtcggcgg ccgcggactc gacgatgagc 60
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<210> 13
<211> 154
<212> DNA
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<223> Description of Artificial Sequence: ELVISLIVES complementary
region of pKS133

<400> 13
cgccggagc tggcatctc gtcatcgac gagtcggcg ccggagctgg tcatctcgct 60
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<223> Description of Artificial Sequence: ELVISLIVES PCR primer

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<210> 15
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<210> 16
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<212> DNA
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<223> Description of Artificial Sequence: PCR primer for amplification
of soybean Fad2-1

<400> 16
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<210> 17
<211> 33
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR primer for amplification
of soybean Fad2-1

<400> 17
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<210> 18
<211> 32
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR primer for amplification of soybean Fad2-1, 5'-end

<400> 18
gaattcgcgg ccgccccatc tattgggttc tc 32

<210> 19
<211> 32
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR primer for amplification of soybean Fad2-1, 3'-end of 25 nucleotide fragment

<400> 19
gaattcgcgg ccgcaacctt ggagaaccctt at 32

<210> 20
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR primer for amplification of soybean Fad2-1, 3'-end 75 nucleotide fragment

<400> 20
gaattcgcgg ccgcggcatg gtgaccacac tc 32

<210> 21
<211> 32
<212> DNA
<213> Artificial Sequence

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<223> Description of Artificial Sequence: PCR primer for amplification of soybean Fad2-1, 3'-end of 150 nucleotide fragment

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gaattcgcgg ccgctgagaa ataaggact aa 32

<210> 22
<211> 32
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR primer for amplification of soybean Fad2-1, 3'-end 300 nucleotide fragment

<400> 22
gaattcgcgg ccgcgagtgt gacgagaaga ga 32

<210> 23
<211> 22
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR primer for amplification of soybean Fad2-1, 3'-end 600 nucleotide fragment

<400> 23
gaattcgcgg ccgcgttctga tgaatcgtaa tg 32

<210> 24
<211> 1717
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: ELVISLIVES complementary region of pBS68

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<210> 25
<211> 21
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<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR primer for amplification of soybean Lea promoter 5'-end

<400> 25
at_attac_cctca att_tttctaa g 21

<210> 26
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR primer for amplification of soybean Lea promoter 3'end

<400> 26
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<210> 27
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR primer for amplification of phaseolin terminator 5'-end

<400> 27
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<210> 28
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: PCR primer for amplification of phaseolin terminator 3'-end

<400> 28
at_cccctgaag tgtctcattt ta 22

<210> 29
<211> 963
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: ELVISLIVES complementary region of pKS149

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<211> 987

<212> DNA

<213> Glycine max

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<211> 328

<212> PRT

<213> Glycine max

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<212> DNA
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<210> 33
<211> 358
<212> PRT
<213> Glycine max

<400> 33

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Ile Thr Thr Val Val Ala Asn Val Thr Thr Glu Gln Leu Pro Lys Ala
35 40 45

Arg Gly Gly Ser Gly Arg Ala Phe Val Thr Phe Leu Ala Gly Asn Gly
50 55 60

Asp Tyr Val Lys Gly Val Val Gly Leu Ala Lys Gly Leu Arg Lys Ala
65 70 75 80

Lys Ser Met Tyr Pro Leu Val Val Ala Val Leu Pro Asp Val Pro Glu
85 90 95

Glu His Arg Glu Ile Leu Lys Ser Gln Gly Cys Ile Val Arg Glu Ile
100 105 110

Glu Pro Val Tyr Pro Pro Glu Asn Gln Thr Gln Phe Ala Met Ala Tyr
115 120 125

Tyr Val Ile Asn Tyr Ser Lys Leu Arg Ile Trp Glu Phe Val Glu Tyr
130 135 140

Lys Lys Thr Ile Tyr Leu Asp Gly Asp Ile Gln Val Phe Gly Asn Ile
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Asp His Leu Phe Asp Leu Pro Asp Asn Tyr Phe Tyr Ala Val Met Asp
165 170 175

Cys Phe Cys Glu Lys Thr Trp Ser His Thr Pro Gln Phe Gln Ile Gly
180 185 190

Tyr Cys Gln Gln Cys Pro Asp Lys Val Gln Trp Pro Ser His Phe Gly
195 200 205

Ser Lys Pro Pro Leu Tyr Phe Asn Ala Gly Met Phe Val Tyr Glu Pro
210 215 220

Asn Leu Asp Thr Tyr Arg Asp Leu Leu Gln Thr Val Gln Leu Thr Lys
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Pro Thr Ser Phe Ala Glu Gln Asp Phe Leu Asn Met Tyr Phe Lys Asp
245 250 255

Lys Tyr Lys Pro Ile Pro Asn Met Tyr Asn Leu Val Leu Ala Met Leu
260 265 270

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275 280 285

Tyr Cys Ala Ala Gly Ser Lys Pro Trp Arg Phe Thr Gly Lys Glu Glu
290 295 300

Asn Met Asp Arg Glu Asp Ile Lys Met Leu Val Lys Lys Trp Trp Asp
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Ile Tyr Glu Asp Glu Thr Leu Asp Tyr Asn Asn Asn Ser Val Asn Val
325 330 335

Glu Arg Phe Thr Ser Ala Leu Leu Asp Ala Gly Gly Phe Gln Phe Val
340 345 350

Pro Ala Pro Ser Ala Ala
355

<210> 34
<211> 515
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: SHH3 complementary
region of PHP17939

<400> 34
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agattgacgg ttgattgtat ttttggttt tatggtttg tggttatgact taagtcttca 180

tctcttatac tcttcatca gtttgacggt tacttaatat ggtgcata gca tgggtacatc 240
actagaaacc atggaaggta ccaagatatac aaccgcggaa agatcgata aatggcatgt 300
taaataaccg tcaaaccctga tgaagagata aagagatgaa gacttaagt ataacacaaa 360
accataaaaaa acaaaaaatac aatcaaccgt caatctgacc aatgcata gaa aagctgcaa 420
tagtgagtgg cgacacacaaag cacatgattt tcttacaacg gagataaaac caaaaaaata 480
tttcatgaac aacctagaac aaataaagcg ttaac 515

<210> 35
<211> 1968
<212> DNA
<213> Glycine max

<400> 35

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ctcaccaaac ccaaccacgc tctcaaaatc aaatgttcca tctccaaacc ccccacggcg 180
gcgccttca ccaaggaagc gccgaccacg gagcccttcg tgtcacggtt cgctccggc 240
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gcgcgttccct ccggcctccc cgccgtctgc attgcccaccc cggccccgg cgccaccaac 480
ctcgtgagcg gcctcgccga cgcttaatg gacagcgatc cagtcgtcgc catcaccggc 540
caggtcgccc gcggatgat cgccaccgac gccttccaag aaaccccgat cttggaggtg 600
agagatcca tcacgaagca caactaccc atcctcgacg tcgacgacat ccccgccgtc 660
gtcgccgagg ctttcttctg cgccacccctc ggccgccccg gtccggctt catcgacatt 720
cccaaagacg ttcaagcaga actcgccgtg cctaattggg acgagcccgtaacccccc 780
ggttacctcg ccaggctgcc caggcccccc gcggaggccc aatttggaaaca cattgtcaga 840
ctcatcatgg aggccccaaa gcccgttctc tacgtcgccg gtggcagtt gaattccagt 900
gctgaattga ggcgtttgt tgaactcact ggtattcccg ttgctagcac ttatgggt 960
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gatgaccgtg ttactggaa gcttgaggct ttgctagta gggctaagat tttcacatt 1140
gatattgatt ctgcccggat tggaaagaaac aagcaggcgc acgtgtcggt ttgcgcggat 1200
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gtgacgaaga aggaagagct tagagcggca attcagagaa tttggacac ccctggcccc 1860
taccttcttgg atgttattgt gccccatca gacatgtgt tgcgtatgtat tcccaat 1920
ggatccttca aggtgtat aactgagggt gatggtagaa cgaggtac 1968

<210> 36
<211> 22
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PCR primer for amplification of soybean Fad2-1, 3'-end 50 nucleotide fragment

<400> 36
gaattcgcgg ccgcatcacc cacacaccag tg

32